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AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (CURRENTLY AMENDED) An identification photo system that

obtains image data for an identification photo of a person from image data of

the person, said identification photo system comprising:

an automatic correcting device that automatically corrects the image

data of the person,

wherein said automatic correcting device detects a background area in

said image data, abstracts a person area based on the background area,

compares a size of the person area in said image data with a predetermined

size, and changes the size of an image based on the size of the person area so

that the size of the person area is the predetermined size,

wherein said automatic correcting device comprises:

an area separating device that separates the image into a person

area and a background area;

a background changing device that changes colors of the

background area to a predetermined color;

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an abstracting device that abstracts a print area required for the

identification photo from the image according to the size of the image,

and,

wherein the area separating device, the background changing device, and

the abstracting device are all physically integrated into a single camera.

2. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 1, wherein said automatic correcting device corrects at least

one of density, color balance, luminance and saturation of the image of the

person.

3. (ORIGINAL) The identification photo system as defined in claim 1,

wherein said automatic correcting device comprises:

a skin pigmentation area abstracting device that abstracts a skin

pigmentation area from the image;

a skin pigmentation correction value calculating device that calculates

skin pigmentation correction values according to colors of the skin

pigmentation area abstracted by said skin pigmentation area abstracting device

and a predetermined skin pigmentation correction target value; and

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a color correcting device that corrects the colors of the skin pigmentation

area according to the skin pigmentation correction values calculated by said

skin pigmentation correction value calculating device.

4. (ORIGINAL) The identification photo system as defined in claim 3,

wherein said color correcting device corrects colors of all the image according to

the skin pigmentation correction values calculated by said skin pigmentation

correction value calculating device.

5-6. (CANCELED)

7. (ORIGINAL) The identification photo system as defined in claim 1,

wherein said automatic correcting device comprises:

a cloth area abstracting device that abstracts a cloth area from the

image; and

a cloth changing device that changes image data of the cloth area to

image data of predetermined cloth.

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8. (ORIGINAL) The identification photo system as defined in claim 1,

further comprising a printer that prints the identification photo from the image

data for the identification photo.

9. (CURRENTLY AMENDED) An image processing method in which

image data for an identification photo of a person is obtained from image data

of the person, said image processing method comprising the steps of:

abstracting a skin pigmentation area from an image of the person;

calculating skin pigmentation correction values according to colors of the

abstracted skin pigmentation area and a predetermined skin pigmentation

correction target value;

correcting the colors of the skin pigmentation area according to the

calculated skin pigmentation correction values;

detecting a background area in said image data;

abstracting a person area in said image data based on the background

area;

comparing a size of the person area in said image data with a

predetermined size; and

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changing the size of the image based on the size of the person area so

that the size of the person area is the predetermined size,

wherein the step of detecting the background area comprises:

comparing a plurality of areas of the image data with a reference

background area; and

determining each of the plurality of areas to be a part of the

background area based on the comparison, and

wherein the reference background area includes at least one corner area

of the image data.

10. (CURRENTLY AMENDED) An image processing system for

generating identification image data from an original image data of a person,

comprising:

an abstracting device configured to determine a person area of the

original image data based on a background area;

an image size correcting device configured to change a size of the person

area to a predetermined person area size based on the size of the person area

abstracted by the abstracting device; and

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an image data generating device configured to generate the identification

image data based on the changed sized person area such that the identification

image data includes a cut guidance area within a print area,

wherein the cut guidance area is smaller than the print area, and

wherein the abstracting device, the image size correcting device, and the

image data generating device are all physically integrated into a single camera.

11. (CURRENTLY AMENDED) The image processing system of as

defined in claim 10, wherein the abstracting device data is configured to detect

a facial area of the person in the original image data based on the person area.

12. (CURRENTLY AMENDED) The image processing system of as

defined in claim 10, further comprising:

a color correcting device configured to correct at least one of density,

color balance, luminance and saturation of an image of the person.

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13. (CURRENTLY AMENDED) The <u>image processing</u> system of <u>as</u>

<u>defined in claim 12</u>, wherein the color correcting device comprises:

a skin pigmentation area abstracting device configured to abstract a skin

pigmentation area from the original image data;

a skin pigmentation correction value calculating device configured to

calculate skin pigmentation correction values according to colors of the skin

pigmentation area abstracted by the skin pigmentation area abstracting device

and a predetermined skin pigmentation correction target value; and

a skin pigmentation correcting device configured to correct the colors of

the skin pigmentation area according to the skin pigmentation correction

values calculated by said skin pigmentation correction value calculating device.

14. (CURRENTLY AMENDED) The <u>image processing</u> system of as

defined in claim 10, wherein the image data generating device comprises:

a head position detecting device configured to detect a head position of

the person in the original image data; and

a cut guidance generating device configured to generate a cut guidance

in the print area based on the head position detected by the a head position

detecting device.

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15. (CURRENTLY AMENDED) The <u>image processing</u> system of <u>as</u>

defined in claim 14, wherein the cut guidance generating device is configured

to outline the cut guidance area by at least one of a solid line, a broken line,

marks at corners, and configured to differentiate colors between the cut

guidance area and a remainder of the printer area.

16. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 1, wherein said automatic correcting device is configured to

determine the person area as being an area of the image data other than the

background area.

17. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 1, wherein said automatic correcting device is configured to

compare a plurality of areas of the image data with a reference background

area and configured to determine each of the plurality of areas to be a part of

the background area based on the comparison.

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18. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 17, wherein the reference background area includes at least

one corner area of the image data.

19. (PREVIOUSLY PRESENTED) The image processing method as

defined in claim 9, wherein said step of abstracting the person area the image

data comprises determining the person area as being an area of the image data

other than the background area.

20-21. (CANCELED)

22. (CURRENTLY AMENDED) The <u>image processing</u> system of <u>as</u>

defined in claim 10, wherein said abstracting device is configured to determine

the person area as being an area of the image data other than the background

area.

23. (CURRENTLY AMENDED) The image processing system of as

defined in claim 10, wherein said abstracting device is configured to determine

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the background area based a comparison of a plurality of areas of the image

data with a reference background area.

24. (CURRENTLY AMENDED) The <u>image processing</u> system of <u>as</u>

defined in claim-10 23, wherein the reference background area includes at

least one corner area of the image data.

25. (CURRENTLY AMENDED) A—An image processing method—for

processing an image, comprising:

determining a background area of an image;

determining a person area of the image as an area of the image other

than the background area of the image; and

sizing the image based on a size of the person area of the image such

that the size of the person area is a predetermined person area size,

wherein the step of determining the background area of the image

comprises:

separating the image into a plurality of areas; and

determining whether or not the each area of the plurality of areas

belongs in the background area based on any one or more of a

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comparison of the each area with a reference background area, a size of

the each area, or an average coordinate of the pixels of the each area,

<u>and</u>

wherein the reference background area includes at least one corner of

the image and wherein the step of determining whether or not the each area of

the plurality of areas belongs in the background area based on the comparison

of the each area with the reference background area includes determining that

the each area belongs in the background area if

a difference between an average luminance value of the pixels of

the each area and an average luminance value of the reference

background area is within a predetermined luminance difference

threshold and a difference between an average chromaticity value of the

pixels of the each area and an average chromaticity value of the reference

background area is within a predetermined chromaticity difference

threshold, or

a difference between an average red (R) value of the pixels of the

each area and an average R value of the reference background area is

within a predetermined R difference threshold, a difference between an

average green (G) value of the pixels of the each area and an average G

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value of the reference background area is within a predetermined G

difference threshold and a difference between an average blue (B) value of

the pixels of the each area and an average B value of the reference

background area is within a predetermined B difference threshold.

26. (CANCELED)

27. (CURRENTLY AMENDED) The image processing method of as

defined in claim 26, wherein the step of separating the image into the plurality

of area comprises:

comparing properties of adjoining pixels of the image; and

determining that the adjoining pixels belong in the same area if the

compared properties of the adjoining pixels are less than predetermined

thresholds for each property compared.

28. (CURRENTLY AMENDED) The image processing method of as

defined in claim 27, wherein the properties of the adjoining pixels compared

include:

luminance and chromaticity values; or

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red (R), green (G) and blue (B) values.

29. (CANCELED)

30. (CURRENTLY AMENDED) The image processing method of as

defined in claim 26, wherein the step of determining whether or not the each

area of the plurality of areas belongs in the background area based on the size

of the each area includes determining that the each area belongs in the

background area if the size of the each area is greater than a predetermined

maximum area or less than a predetermined minimum area.

31. (CURRENTLY AMENDED) The image processing method of as

defined in claim 26, wherein the step of determining whether or not the each

area of the plurality of areas belongs in the background area based on the

average coordinate of the pixels of the each area includes determining that the

each area belongs in the background area if the average coordinate of the

pixels of the each area is outside of a predetermined oval or circle with the

center of the oval or the circle at the center of the image.

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32. (CURRENTLY AMENDED) The <u>image processing</u> method of <u>as</u>

defined in of claim 25, further comprising abstracting a facial area based on

the person area.

33. (CURRENTLY AMENDED) The image processing method of as

defined in claim 32, wherein the step of abstracting the facial area based on the

person area comprises determining that an area of the person area is the facial

area when a color of the of the area is determined to be a skin pigmentation

color.

34. (CURRENTLY AMENDED) The image processing method of as

defined in claim 33, further comprising correcting the facial area to a target

skin pigmentation color.

35. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 1, wherein said automatic correcting device is configured to

separate the image data into an area such that two adjoining pixels are in the

same area if a difference in data between the two adjoining pixels is smaller

than a predetermined threshold, calculate a characteristic value of the area,

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detect the background area based on the characteristic value of the area, and

abstract the person area in the image data based on the background area.

36. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 35, wherein said automatic correcting device is configured to

detect the area as the background area if a difference in the characteristic

value between a predetermined reference background area and an area

adjoining the predetermined reference background area is smaller than a

predetermined threshold.

37. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 36, wherein the predetermined reference background area

includes at least one corner area of the image data or an area out of an oval

that is smaller than the image with its center at a center of the image data.

38. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 35, wherein said automatic correcting device is configured to

detect the area as the background area if a number of pixels in the area is

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larger than a first predetermined threshold or smaller than a second

predetermined threshold.

39. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 35, wherein said automatic correcting device is configured to

detect the area as the background area if an average coordinate of the pixels in

the area is out of a circle or an oval with its center at a center of the image data.

40. (CURRENTLY AMENDED) An image processing method in which

image data for an identification photo of a person is obtained from image data

of the person, the image processing method comprising the steps of:

dividing the image data into an area such that two adjoining pixels are in

the same area if a difference in data between the two adjoining pixels is smaller

than a predetermined threshold;

calculating a characteristic value of the area, wherein the characteristic

value of the area includes an average luminance, an average chromaticity Cb,

and an average chromaticity Cr of the area;

detecting a background area based on the characteristic value of the

area;

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abstracting a person area in the image data based on the background

area; and

sizing an image based on a size of the person area of the image data such

that the size of the person area in the image is a predetermined person area

size.

41. (CURRENTLY AMENDED) The image processing method as defined

in claim 40, wherein the step of detecting the background area includes:

determining that an area adjoining a predetermined reference

background area is the background area if

a difference in the characteristic value average luminance values of

between the predetermined reference background area and the area

adjoining the predetermined reference background area is smaller than a

predetermined luminance threshold,

a difference in the average average chromacity Cb values of the

reference background area and the adjoining area is smaller than a

predetermined chromaticity Cb threshold, and

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a difference in the average average chromacity Cb values of the

reference background area and the adjoining area is smaller than a

predetermined chromaticity Cb threshold.

42. (CURRENTLY AMENDED) The image processing method as defined

in claim 41, wherein the predetermined-reference background area includes at

least one corner area of the image data or an area out of an oval that is smaller

than the image with its center at a center of the image data.

43. (PREVIOUSLY PRESENTED) The image processing method as

defined in claim 40, wherein the step of detecting the background area

includes:

determining that the an area adjoining a reference background area is

the background area if a number of pixels in the adjoining area is larger than a

first predetermined threshold or smaller than a second predetermined

threshold,

wherein the reference background area includes at least one corner area

of the image data or an area out of an oval that is smaller than the image with

its center at a center of the image data.

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44. (PREVIOUSLY PRESENTED) The image processing method as

defined in claim 40, wherein the step of detecting the background area

includes:

determining that the an area adjoining a reference background area is

the background area if an average coordinate of the pixels in the adjoining area

is out of a circle or an oval with its center at a center of the image data,

wherein the reference background area includes at least one corner area

of the image data or an area out of an oval that is smaller than the image with

its center at a center of the image data.

45-46. (CANCELED)

47. (CURRENTLY AMENDED) The identification photo system as

defined in claim 1, the system further comprising:

a selection device configured to allow a user to select the predetermined

size from a plurality of predetermined person area sizes,

wherein in the automatic correcting device changes the image of the

person so that the size of the person area is the selected predetermined size.

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48. (CURRENTLY AMENDED) The <u>image processing</u> method of <u>as</u>

defined in claim 9, further comprising:

allowing a user to select the predetermined size from a plurality of

predetermined person area sizes prior to changing the size of the image,

wherein in the step of changing the size of the image comprises changing

the size of the image based on the selected predetermined size.

49. (CURRENTLY AMENDED) The <u>image processing</u> system as defined

in claim 10, the system further comprising:

a selection device configured to allow a user to select the predetermined

person area size from a plurality of predetermined person area sizes,

wherein in the image size correcting device changes the image of the

person so that the size of the person area is the selected predetermined person

area size.

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50. (CURRENTLY AMENDED) The <u>image processing</u> method of <u>as</u>

defined in claim 25, further comprising:

allowing a user to select the predetermined person area size from a

plurality of predetermined person area sizes prior to sizing the image,

wherein in the step of sizing the image comprises sizing the image based

on the selected predetermined person area size.

51. (CURRENTLY AMENDED) The <u>image processing</u> method of <u>as</u>

defined in claim 40, further comprising:

allowing a user to select the predetermined person area size from a

plurality of predetermined person area sizes prior to sizing the image,

wherein in the step of sizing the image comprises sizing the image based

on the selected predetermined person area size.

52. (NEW) The identification photo system as defined in claim 1,

wherein the automatic correcting device changes the size of the image after the

person has been photographed to generate the image data of the person.

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53. (NEW) The image processing method as defined in claim 9, wherein

the step of changing the size of the image based on the size of the person area

so that the size of the person area is the predetermined size is performed after

the person has been photographed to generate the image data of the person.

54. (NEW) The image processing system as defined in claim 10,

wherein the image size correcting device changes the size of the person area

after the person has been photographed to generate the original image data of

the person.

55. (NEW) The image processing method as defined in claim 25,

wherein the step of sizing the image based on the size of the person area such

that the size of the person area is the predetermined size is performed after the

image is generated through photography.

56. (NEW) The image processing method as defined in claim 40,

wherein the step of sizing the image based on the size of the person area such

that the size of the person area is the predetermined size is performed after the

person has been photographed to generate the image data of the person.

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57. (NEW) The identification photo system as defined in claim 3,

further comprising a facial color area abstracting device that reads the image

and selects an image area of the image that is filled with specific image data

that satisfy one or more predetermined conditions to represent a facial or flesh

color.